

**Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, D.C.**

In the Matter of

Indiana County, Pennsylvania, Emergency Management Agency )  
Request for Waiver of the January 1, 2013 )  
Narrowbanding deadline )  
)

To: Chief, Public Safety and Homeland Security Bureau

**Request for Waiver**

Pursuant to Section 1.925 of the Federal Communications Commission's (the "Commission") rules, the Indiana County, Pennsylvania Emergency Management Agency (the "County") hereby submits a request for waiver of the January 1, 2013 narrowbanding deadline. The County is in the process of implementing a new P25 digital trunked public safety radio system in the 800 MHz frequency band, which will be utilized by all emergency response, public safety and county government agencies within Indiana County. The County is currently under contract for this system with Motorola Solutions, Inc. ("Motorola") and its subcontractor Alcatel-Lucent, JG Contracting Company, Inc., and Salsgiver Telecom Fiber and the County is in the process of acquiring radio sites and finalizing the system design. This trunking system will replace the conventional wideband analog VHF stations currently in use by the County to dispatch public safety agencies within Indiana County.

The project schedule initially targeted a migration to the 800 MHz system prior to January 1, 2013. However, delays resulting from site acquisition and regional integration have extended the implementation schedule into 2013. There are many variables that have a high probability of further impacting the schedule which could push the cutover date further into 2013. These factors include:

1. Each radio tower site is still in the planning, leasing/acquisition, design and permitting/zoning process. There is no guarantee that the state radio office, local planning and zoning agencies and boards will execute leases and/or approve the proposed towers within the projected time frames shown on the schedule. This process could potentially add six to nine months to the project if one or two key sites are not acquired, zoned and permitted in a timely manner, as projected.
2. Radio sites will require NEPA Environmental Impact Studies, pole access permits for fiber, and special conservation or geotechnical studies which, if complicated by mining concerns or environmental issues, could delay the project extensively. This delay would push back system deployment and commissioning.
3. Leases, pole permits and agreements with landowners and third party tower owners have not been finalized. Should site acquisition efforts arrive at an impasse or be delayed for mutual approval, the County may have to locate alternate sites and negotiate those leases. These processes could further push the schedule past the January 1 2013 deadline.

4. Radio coverage testing must be scheduled when the weather and foliage support the testing plan accepted with the vendor.

If the system could only be partially built out by January 1, 2013 due to delays in site acquisition, zoning, permitting, etc, it would be necessary to continue to operate the current VHF frequencies until the point that all site development and connectivity is completed and coverage could be successfully tested on the system.

Specifically, the County requests until September 30, 2013 to complete its migration off of all applicable VHF and UHF wideband analog stations.

The information provided in this waiver request pertains to all public safety agencies within Indiana County that plan to migrate to the planned 800 MHz trunking system. A list of the applicable call signs has been provided in Appendix A.

In DA 11-1189 released on July 13, 2011, the Commission provided guidance to licensees for the filing of waivers of the narrowbanding deadline. The Commission cited the requirements of FCC rules section 1.925<sup>1</sup> which state that waivers must demonstrate that “(i) the underlying purpose of the rule(s) would not be served or would be frustrated by application to the instant case, and that a grant of the waiver would be in the public interest; or (ii) in view of unique or unusual factual circumstances of the instant case, application of the rule(s) would be inequitable, unduly burdensome or contrary to the public interest, or the applicant has no reasonable alternative.” Relative to the requirements of FCC rules section 1.925, the Commission recommended the following content for waiver requests:

- Steps already taken to plan for, initiate, and complete the transition to narrowband operations
- System size and complexity
- Whether system equipment is narrowband-capable or must be replaced or upgraded
- Whether the licensee plans additional system upgrades or improvements in addition to converting to narrowband operation
- Funding sources, including whether the licensee’s budget requires government approval or a multi-year budget process
- Whether the licensee’s narrowbanding schedule is affected by neighboring systems due to interoperability relationship or other interdependencies
- Plans to minimize the negative impact of extended wideband operations on co-channel and adjacent channel operations, including a description of the spectrum environment in the affected area
- If the licensee plans to migrate to a non-VHF/UHF band (e.g., 700 MHz or 800 MHz), whether it will relinquish VHF/UHF spectrum once it has migrated and the amount of spectrum to be relinquished

Further, the Commission has requested the following:

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<sup>1</sup> 47.C.F.R §§ 1.925(b)(3)



- What steps in the process have been or will be taken prior to January 1, 2013
- Anticipated dates of commencement and completion of:
  - Replacement or retuning of mobiles/portables
  - Infrastructure replacement or returning

The County has supplied applicable criteria for each of the above listed FCC recommendations for waiver content.

### **Steps already taken to plan for, initiate, and complete the transition to narrowband operations**

The County is well aware of the FCC requirements for licensees to migrate to narrowband operations. One of the driving factors behind the planned 800 MHz system is to satisfy narrowbanding requirements by permitting agencies to migrate off of legacy VHF spectrum. The County initially contracted with a consulting company to determine the best approach for satisfying the narrowbanding deadline. The results of that study determined that a new 800 MHz trunking system was the ideal technology to both satisfy the narrowbanding deadline and correct critical system deficiencies including coverage, capacity, and interoperability.

The County has since contracted with Motorola, JG Contracting, and Salsgiver Telecom. At this time the system design has been finalized pending site acquisition and site/fiber network buildout, orders have been placed with Motorola Solutions Inc. for the system infrastructure. Tower and site equipment procurement is underway. 800 MHz spectrum is currently being secured to support use on the system.

Pursuant to FCC rules section 1.925, the County has no other narrowbanding alternative than to proceed with the plans currently in place. Insufficient time exists to properly plan and execute an alternative approach which would satisfy the January 1, 2013 deadline. Such an approach would require funding to replace infrastructure incapable of narrowband operation and resources which are not available in lieu of the present commitment to build out an 800 MHz trunked systems. An alternate approach would likely involve the ongoing use of conventional and simplex VHF equipment which would not address critical communications deficiencies presently experienced within the County. Therefore, an alternate approach would be inequitable, unduly burdensome, and contrary to the public interest.”

### **System size and complexity**

The County is comprised of roughly 829 square miles of land and 5 square miles of water. The County’s population is approximately 88,880. The County includes 14 boroughs and 24 townships.

The legacy systems currently in place within Indiana County are comprised of over 30 conventional VHF low band, VHF high band, and UHF simplex and repeater stations.

The proposed system will be a countywide simulcast trunked system utilizing 14 tower sites. The system is designed to provide countywide portable hip-level on street coverage. The system will operate on the P25 Phase I standard and be capable of P25 Phase II utilizing TDMA. The system as proposed by Motorola will utilize 6 frequencies in a single simulcast zone and be part of a multi-county system on a

single master switch, connected by a microwave/fiber network for inter-county operability. The system will support up to 1200 subscriber radios within the first year of operation.

It was determined that a countywide trunked simulcast P25 system was the only technology available which would adequately address the communications deficiencies experienced on the present conventional systems. Pursuant to FCC rules Section 1.925, failure to build out the trunked system in lieu of another narrowbanding approach will be contrary to the public interest.

**Whether system equipment is narrowband-capable or must be replaced or upgraded**

The legacy VHF subscriber equipment and fixed infrastructure in use within the County is comprised of a mix of equipment that is not narrowbanding capable and equipment that can be upgraded to narrowband operation. However, none of this legacy equipment is capable of operating in the 800 MHz band.

Therefore, all VHF high band subscriber equipment and fixed infrastructure currently in use within the County will be replaced when the 800 MHz system is implemented.

**Whether the licensee plans additional system upgrades or improvements in addition to converting to narrowband operation**

The County's narrowband migration will consist of the implementation of an entirely new 800 MHz P25 Phase I simulcast trunked system. The system will address critical coverage, capacity, and interoperability deficiencies experienced on the present VHF conventional systems.

The system replacement is necessary to provide first responders with an effective and reliable communications system. Failure to provide the system in lieu of another narrowbanding alternative will be contrary to the public interest.

**Funding sources, including whether the licensee's budget requires government approval or a multi-year budget process**

The planned 800 MHz P25 trunking system has been fully funded. The budget for the planned system was approved by the County Commissioners in December 2010 when the contract was signed with Motorola. The contracted price of the system is \$7,051,316. The County has also executed a Microwave contract with Motorola at the cost of \$1,409,969, a site development contract with JG Contracting at the cost of \$2,984,264, and a fiber contract with Salsgiver Telecom at the cost of \$2,148,023. The combined total cost of the infrastructure system is \$13,593,572. As evidence of the County's funding commitment, signed contract pages from Motorola, JG Contracting, and Salsgiver Telecom contracts have been provided in Appendix B.

In lieu of the County's funding commitment to build out a countywide trunked system, insufficient funding exists for the County to pursue an alternate approach which would assure compliance with January 1, 2013 deadline. Such an approach would be inequitable, unduly burdensome or contrary to the public interest.



**Whether the licensee's narrowbanding schedule is affected by neighboring systems due to interoperability relationship or other interdependencies**

The County's narrowbanding schedule is minimally affected by neighboring systems. One neighboring system currently operates in the 800 MHz frequency band, and another is also constructing an 800 MHz trunked system using the same master controller to increase interoperability. These three Counties are developing a shared switch for County operations as soon as the 800 MHz broadcast and fiber/microwave connectivity infrastructure is ready. For those neighboring jurisdictions that do utilize VHF and UHF radio systems, the County will rely upon specific narrowband channels which will be utilized for interoperability purposes. Gateway systems will be used where applicable to minimize any degradation experienced by cross communication between wideband and narrowband programmed radios. The County is actively communicating with interoperability partners to assure that interoperability is maintained throughout the narrowbanding transition and following the County's migration to 800 MHz.

**Plans to minimize the negative impact of extended wideband operations on co-channel and adjacent channel operations, including a description of the spectrum environment in the affected area**

Most of the jurisdictions immediately neighboring the County to the west and south operate or will be operating 800 MHz trunking systems, and will thus not be impacted by the extended wideband operations within the County. For those neighboring agencies to the east and north that will continue to operate VHF and UHF systems, co-channel interference problems are not expected to increase because of the transition to narrowband operations. Anticipated interference problems would likely be adjacent channel in nature. 7.5 kHz-offset adjacent channels in the VHF band have been available for quite some time but have been treated by frequency coordinators as co-channel to adjacent wideband operations. No additional interference is anticipated from existing licensed stations. Potential interference from existing stations is anticipated to decrease as neighboring jurisdictions narrowband their equipment. Interference resulting from the extended use of wideband channels is only expected by new licensees operating in closer proximities than those distances currently permitted by frequency coordinators. The County will address these interference issues on a case by case basis, and will take all reasonable steps necessary to remedy the interference. These steps will include adjusting antenna patterns, reducing base station ERP, reducing mobile ERP, narrowbanding specific channels if the level of effort is manageable, or ceasing operating altogether.

The overall length of time the County will operate on wideband channels beyond January 1, 2013 is anticipated to be no longer than 9 months. Based on typical licensing times for new stations and typical system build-out periods of 1 year, the amount of time that any interference issues could be expected will be minimal.

**If the licensee plans to migrate to a non-VHF/UHF band (e.g., 700 MHz or 800 MHz), whether it will relinquish VHF/UHF spectrum once it has migrated and the amount of spectrum to be relinquished**

The County plans to migrate primary operations to the 800 MHz frequency band. Once the 800 MHz system has been accepted and cutover to the system has been completed, most legacy VHF equipment

licensed to the County will be decommissioned and the corresponding spectrum will be relinquished. The VHF high band frequency used for regional EMS interoperations as authorized on KSO954 must remain in service until the all EMS providers cease operations on this frequency. A single UHF channels will be retained by the County for interoperability purposes as part of the Pennsylvania Emergency Management Agency Radio System (PEMARS). A list of the applicable call signs and frequencies held by the County which will be relinquished following cutover to the 800 MHz system have been provided in Appendix C.

### **Narrowbanding Timetable**

The County and Motorola Solutions, Inc. have developed a detailed project schedule outlining the step by step implementation schedule. The detailed project schedule has been provided in Appendix D.

Pursuant to DA 11-1189, the following key dates have been provided:

<b><u>Milestone</u></b>	<b><u>Completion Date</u></b>
Radio Sites Secured	May 31, 2012
System Design Finalized	June 15, 2012
All Site/infrastructure Equipment Ordered	June 15, 2012
Equipment Radio/Microwave/Paging Staging Completed	May 15, 2012
Fixed Infrastructure Installed/Optimized	November 30, 2012
System Functional Testing Completed	January 15, 2013
System Coverage Testing Completed	May 15, 2013
Subscriber Units Deployment Complete	May 15, 2013
System Cutover Completed	June 15, 2013
System Acceptance	August 31, 2013

### **Authority to Grant the Requested Waiver**

Section 1.925(b)(3) allows the Commission to grant waivers if the underlying purpose of the rule would not be served or would be frustrated by application of the rule in the instant case and/or in view of the unique circumstances, the application of the rule would be inequitable, unduly burdensome, or contrary to the public interest.<sup>2</sup>

The narrowbanding deadline was established as a means to force land mobile radio users to implement spectrally efficient technologies so that newly created channels could be effectively utilized. The County is currently implementing a spectrally efficient technology available in a P25 Phase I trunked simulcast FDMA system. The system as proposed will utilize 6 repeater frequencies compared to the over 25 stations currently in use within the County. Forcing the County to adhere to the January 1, 2013 will require the County to abandon the planned 800 MHz trunking system and develop an alternate strategy to renew legacy VHF and UHF systems. This requirement would be contrary to the underlying purpose of

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<sup>2</sup> 47.C.F.R §§ 1.925(b)(3)

the rule as the County would be forced to abandon a spectrally efficient design for a spectrally inefficient design.

The County has committed extensive time and resources into the current plan to build out a trunked 800 MHz system. The technology was identified as the optimum solution to address the critical deficiencies identified within the present communications systems. Should the system not be constructed as planned, first responders will be forced to continue to utilize communications systems which provide inadequate coverage, capacity, and interoperability. Based on the resources committed to the present project, it is not likely that an alternate narrowbanding approach could be developed which would satisfy the January 1, 2013 deadline. Therefore, application of the rule would be inequitable, unduly burdensome, and contrary to the public interest. In the instant case, the County has no other reasonable alternative than to proceed with the presently planned 800 MHz system.

### **Conclusion**

The County has shown that granting of the requested relief would be in the public interest and would promote safety of life and property. The requested relief falls squarely under the provisions of Section 1.925(b)(3) of the Commission's rules. The Commission has the ability to grant this application and significantly improve the communications capabilities for the first responders within Indiana County. The County requests that the Commission find this request in the public interest and grant the application, as submitted.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'T. Stutzman', is written over a horizontal line.

Thomas A. Stutzman, Director  
Indiana County Emergency Management Agency

### Appendix A – Indiana County Call Signs

<u>Call Sign</u>	<u>Licensee</u>
KSO954	Indiana, County of
KNHU240	Indiana, County of
KFY426	Indiana, County of
WQDU756	Indiana, County of
WQAH626	Indiana, County of



## Appendix B – Proof of Funding

payment obligations exist, Sections 5.1 and 5.2 (Contract Price and Invoicing and Payment); Subsection 9.7 (Disclaimer of Implied Warranties); Section 11 (Disputes); Section 14 (Limitation of Liability); and Section 15 (Confidentiality and Proprietary Rights); and all of the General provisions in Section 16.

The Parties hereby enter into this Agreement as of the Effective Date.

Motorola, Inc.

Indiana County, Pennsylvania  
Board of Commissioners

By: JM Wasni  
Name: JACQUELYN WASNI  
Title: MST VICE PRESIDENT  
Date: 12/22/10

By: [Signature]  
Name: Rodney D. Ruddock  
Title: CHAIRMAN COMMISSIONER

By: [Signature]  
Name: David S. Frick  
Title: COMMISSIONER

By: [Signature]  
Name: Patricia A. Evanko  
Title: COMMISSIONER

Date: December 22 2010



MOTOROLA SOLUTIONS

## CHANGE ORDER

Change Order # 1

### Changes in Equipment:

Addition of the equipment detailed in Motorola's October 18, 2011 proposal. See Exhibit C-2a.

### Changes in Services:

The additional work required for the implementation of the Microwave System, the necessary training, Acceptance Tests, and Warranty support are detailed in the following additional Exhibits:  
Exhibit C-1a – System Description  
Exhibit C-3a – Statement of Work  
Exhibit C-6 – Training  
Exhibit C-4a – Acceptance Test Plan  
Exhibit F-a – Warranty Support

### Schedule Changes:

The underlying radio System Performance Schedule (Exhibit C-5) has been updated to reflect changes discussed in the Detailed Design Review. See attached updated Exhibit C-5. The parties also envision conducting a Detailed Design Review of the Microwave System and will update the Performance Schedule (Exhibit C-5) in a subsequent change order to factor in the additional work.

### Customer Responsibilities:

See attached Exhibit C-3a

### Payment Schedule for this Change Order:

(describe new payment terms applicable to this change order)

See attached Exhibit B-a

Unless amended above, all other terms and conditions of the Contract shall remain in full force. If there are any inconsistencies between the provisions of this Change Order and the provisions of the Contract, the provisions of this Change Order will prevail.

IN WITNESS WHEREOF the parties have executed this Change Order as of the last date signed below.

#### Motorola Solutions, Inc.

By: 

Name: Patty Holtschneider

Title: MSSSI Vice President

Date: November 14, 2011

#### Customer

By: 

Name: Rodney Ruddock

Title: Chairman

Date:

By:

Name: David Frick

Title: Commissioner

By:



# CHANGE ORDER

Change Order # 10

Name: Patricia Evanko

Title: Commissioner

By: [Signature]

Name: Robin Maryai

Title: Chief Clerk

County Seal

Reviewed by: James Lambert  
Motorola Solutions Project Manager

Date: 11/11/11



8. Contractor shall actively recruit minority subcontractors or subcontractors with substantial minority representation among their employees.
9. Contractor shall include the provisions of this nondiscrimination clause in every subcontract, so that such provisions will be finding upon each subcontractor.
10. Contractor obligations under this clause are limited to the contractor's facilities within Pennsylvania or, where the contract is for purchase of goods manufactured outside of Pennsylvania, the facilities at which such good are actually produced.

CONTRACTOR: JG Contracting Company, Inc.

BY: *James J. Germain* 4/27/2011  
TITLE: Principal

APPROVED: INDIANA COUNTY

BY: *[Signature]* 5/3/11  
TITLE: COMMISSIONER

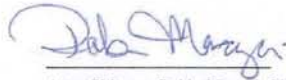
STATEMENT OF WORK

Between The County of Indiana and Salsgiver, Inc.

Signatures


SALSGIVER, INC.

  
Loren Salsgiver


  
Attest/Witness, Robin Mayyai, Chief Clerk

6-8-11  
Date

INDIANA COUNTY  
BOARD OF COMMISSIONERS

  
Rodney D. Ruddock, Commissioner

  
David S. Frick, Commissioner

  
Patricia A. Evanko, Commissioner

6-8-11  
Date

### Appendix C – Relinquished Spectrum

<u>Licensee</u>	<u>Call Sign</u>	<u>Frequencies</u>	<u>Will be Vacated</u>
Indiana, County of	KSO954	155.34	No
		155.22	Yes
Indiana, County of	KNHU240	154.74	Yes
		155.01	Yes
		155.79	Yes
		155.22	Yes
		155.43	Yes
		155.07	Yes
		155.475	Yes
Indiana, County of	KYF426	154.98	Yes
Indiana, County of	WQAH626	453.525	No
		458.525	No
Indiana, County of	WQDU756	154.74	Yes
		159.465	Yes



## Appendix D – Narrowbanding Schedule

ID	Task Name	Duration	Actual Start	Start	Actual Finish	Finish	% Complete
1	Project Start	697 days?	Wed 12/22/10	Wed 12/22/10	NA	Thu 8/23/12	50%
2	Contract Award	248 days?	Wed 12/22/10	Wed 12/22/10	Fri 12/2/11	Fri 12/2/11	100%
9	COI	158 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 6/25/12	11%
16	Frequency Acquisition	111 days	Fri 8/19/11	Fri 8/19/11	Fri 1/28/12	Fri 1/28/12	100%
19	Fleet Mapping and Templates	231.8 days	Thu 5/5/11	Thu 5/5/11	NA	Mon 3/26/12	69%
26	Order Processing	157 days	Fri 7/22/11	Fri 7/22/11	NA	Mon 7/16/12	78%
40	Equipment Manufacturing	269 days	Wed 8/17/11	Wed 8/17/11	NA	Mon 8/27/12	32%
54	Staging	25 days	Tue 10/11/11	Tue 10/11/11	Tue 11/15/11	Tue 11/15/11	100%
60	Armstrong	219 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/17/12	61%
230	Indiana	224 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/24/12	45%
231	Strongy HIR Indiana County 4	209 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/3/12	41%
232	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
233	Civil Work	11 days	NA	Mon 3/5/12	NA	Mon 3/19/12	0%
234	Receive and Inventory Equipment	105 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	92%
235	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
236	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
237	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
238	Install FNE	5 days	NA	Mon 7/2/12	NA	Fri 7/6/12	0%
239	Install MW FNE	5 days	NA	Mon 7/2/12	NA	Fri 7/6/12	0%
240	Install Antennas	5 days	NA	Tue 5/22/12	NA	Mon 5/28/12	0%
241	Install MW Antennas	5 days	NA	Tue 5/22/12	NA	Mon 5/28/12	0%
242	Penn View Indiana County 5	209 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/3/12	50%
243	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
244	Civil Work	11 days	NA	Mon 3/5/12	NA	Mon 3/19/12	0%
245	Receive and Inventory Equipment	105 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	92%
246	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
247	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
248	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
249	Install FNE	5 days	NA	Mon 7/9/12	NA	Fri 7/13/12	0%
250	Install Antennas	5 days	NA	Tue 5/29/12	NA	Mon 6/4/12	0%
251	Kiski School Indiana County 1	209 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/3/12	53%
252	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
253	Civil Work	7 days	NA	Wed 2/8/12	NA	Thu 2/16/12	0%
254	Receive and Inventory Equipment	105 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	92%
255	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
256	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
257	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
258	Install FNE	6 days	NA	Mon 6/4/12	NA	Mon 6/11/12	0%
259	Install Antennas	5 days	NA	Tue 6/5/12	NA	Mon 6/11/12	0%
260	Kitter HIR Indiana County 6	209 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/3/12	41%
261	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
262	Civil Work	11 days	NA	Mon 3/5/12	NA	Mon 3/19/12	0%
263	Receive and Inventory Equipment	105 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	92%
267	Install FNE	5 days	NA	Mon 7/16/12	NA	Fri 7/20/12	0%
268	Install MW FNE	5 days	NA	Mon 7/16/12	NA	Fri 7/20/12	0%
269	Install Antennas	5 days	NA	Tue 6/12/12	NA	Mon 6/18/12	0%
270	Install MW Antennas	5 days	NA	Tue 6/12/12	NA	Mon 6/18/12	0%
271	911 Center Indiana County 7	209 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/3/12	50%
272	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
273	Civil Work	11 days	NA	Mon 3/5/12	NA	Mon 3/19/12	0%
274	Receive and Inventory Equipment	105 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	92%
275	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%

ID	Task Name	Duration	Actual Start	Start	Actual Finish	Finish	% Complete
276	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
277	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
278	Install FNE	5 days	NA	Mon 7/23/12	NA	Fri 7/27/12	0%
279	Install Antennas	5 days	NA	Tue 6/19/12	NA	Mon 6/25/12	0%
280	Young Township Indiana County 11	289 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/3/12	41%
281	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
282	Civil Work	11 days	NA	Mon 3/5/12	NA	Mon 3/19/12	0%
283	Receive and Inventory Equipment	165 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	91%
284	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
285	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
286	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
287	Install FNE	5 days	NA	Mon 8/20/12	NA	Fri 8/24/12	0%
288	Install MW FNE	5 days	NA	Mon 8/20/12	NA	Fri 8/24/12	0%
289	Install Antennas	5 days	NA	Tue 7/24/12	NA	Mon 7/30/12	0%
290	Install MW Antennas	5 days	NA	Tue 7/24/12	NA	Mon 7/30/12	0%
291	Clymer Indiana County 8	289 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/3/12	51%
292	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
293	Civil Work	10 days	NA	Tue 3/20/12	NA	Mon 4/2/12	0%
294	Receive and Inventory Equipment	165 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	91%
295	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
296	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
297	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
298	Install FNE	5 days	NA	Mon 7/30/12	NA	Fri 8/3/12	0%
299	Install Antennas	5 days	NA	Tue 7/3/12	NA	Mon 7/9/12	0%
300	Cascade Indiana County 9	289 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/3/12	42%
301	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
302	Civil Work	10 days	NA	Tue 3/20/12	NA	Mon 4/2/12	0%
303	Receive and Inventory Equipment	165 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	91%
304	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
305	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
306	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
307	Install FNE	5 days	NA	Mon 8/6/12	NA	Fri 8/10/12	0%
308	Install MW FNE	5 days	NA	Mon 8/6/12	NA	Fri 8/10/12	0%
309	Install Antennas	5 days	NA	Tue 7/10/12	NA	Mon 7/16/12	0%
310	Install MW Antennas	5 days	NA	Tue 7/10/12	NA	Mon 7/16/12	0%
311	Cherry Tree Indiana County 3	289 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/3/12	51%
312	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
313	Civil Work	10 days	NA	Fri 2/17/12	NA	Thu 3/1/12	0%
314	Receive and Inventory Equipment	165 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	91%
315	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
316	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
317	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
318	Install FNE	5 days	NA	Mon 6/25/12	NA	Fri 6/29/12	0%
319	Install Antennas	5 days	NA	Tue 6/26/12	NA	Mon 7/2/12	0%
320	Shelbets Indiana County 2	197 days	Thu 12/1/11	Thu 12/1/11	NA	Mon 9/3/12	6%
321	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
322	Civil Work	1 day	NA	Fri 3/2/12	NA	Fri 3/2/12	0%
323	Receive and Inventory Equipment	93 days	Thu 12/1/11	Thu 12/1/11	NA	Tue 4/10/12	6%
324	FNE Motorola	0 days	Thu 12/1/11	Thu 12/1/11	Thu 12/1/11	Thu 12/1/11	100%
325	FNE Non-Motorola	0 days	Thu 12/1/11	Thu 12/1/11	Thu 12/1/11	Thu 12/1/11	100%
326	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
327	Install FNE	5 days	NA	Mon 6/18/12	NA	Fri 6/22/12	0%

ID	Task Name	Duration	Actual Start	Start	Actual Finish	Finish	% Complete
328	Install Antennas	5 days	NA	Tue 7/31/12	NA	Mon 8/6/12	0%
329	<b>Seneca Indiana County 13</b>	213 days	Wed 11/16/11	Wed 11/16/11	NA	Fri 9/7/12	46%
330	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
331	Civil Work	11 days	NA	Mon 3/5/12	NA	Mon 3/19/12	0%
332	<b>Receive and Inventory Equipment</b>	105 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	92%
333	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
334	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
335	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
336	Install FNE	5 days	NA	Mon 9/3/12	NA	Fri 9/7/12	0%
337	Install MW FNE	5 days	NA	Mon 9/3/12	NA	Fri 9/7/12	0%
338	Install Antennas	6 days	NA	Tue 8/14/12	NA	Tue 8/21/12	0%
339	Install MW Antennas	6 days	NA	Tue 8/14/12	NA	Tue 8/21/12	0%
340	<b>Repers View Indiana County 12</b>	209 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/3/12	41%
341	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
342	Civil Work	11 days	NA	Mon 3/5/12	NA	Mon 3/19/12	0%
343	<b>Receive and Inventory Equipment</b>	105 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	92%
344	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
345	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
346	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
347	Install FNE	5 days	NA	Mon 8/27/12	NA	Fri 8/31/12	0%
348	Install MW FNE	5 days	NA	Mon 8/27/12	NA	Fri 8/31/12	0%
349	Install Antennas	5 days	NA	Tue 8/7/12	NA	Mon 8/13/12	0%
350	Install MW Antennas	5 days	NA	Tue 8/7/12	NA	Mon 8/13/12	0%
351	<b>Banks Township Indiana County 10</b>	209 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/3/12	41%
352	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
353	Civil Work	10 days	NA	Tue 2/6/12	NA	Mon 3/19/12	0%
354	<b>Receive and Inventory Equipment</b>	105 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	92%
355	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
356	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
357	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
358	Install FNE	5 days	NA	Mon 8/13/12	NA	Fri 8/17/12	0%
359	Install MW FNE	5 days	NA	Mon 8/13/12	NA	Fri 8/17/12	0%
360	Install Antennas	5 days	NA	Tue 7/17/12	NA	Mon 7/23/12	0%
361	Install MW Antennas	5 days	NA	Tue 7/17/12	NA	Mon 7/23/12	0%
362	<b>Blue Spruce Indiana County 14</b>	218 days	Wed 11/16/11	Wed 11/16/11	NA	Fri 9/14/12	56%
363	Backhaul	1 day	NA	Mon 9/3/12	NA	Mon 9/3/12	0%
364	Civil Work	11 days	NA	Mon 3/5/12	NA	Mon 3/19/12	0%
365	<b>Receive and Inventory Equipment</b>	105 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 4/10/12	92%
366	FNE Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
367	FNE Non-Motorola	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
368	Antenna	2 days	NA	Mon 4/9/12	NA	Tue 4/10/12	0%
369	Install FNE	5 days	NA	Mon 9/16/12	NA	Fri 9/14/12	0%
370	Install Antennas	5 days	NA	Wed 8/22/12	NA	Tue 8/28/12	0%
371	<b>Indiana 911 Center Prime Site</b>	224 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 9/24/12	67%
372	Receive and Inventory Equipment	12 days	Wed 11/16/11	Wed 11/16/11	Thu 12/1/11	Thu 12/1/11	100%
373	Install FNE Prime Site	6 days	NA	Mon 9/17/12	NA	Mon 9/24/12	0%
374	Indiana 911 Center Prime Site Complete	9 days	NA	Mon 9/24/12	NA	Mon 9/24/12	0%
375	<b>Westmoreland</b>	170 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 11/27/12	23%
376	<b>New PC Installation Westmoreland County</b>	121 days	Wed 11/16/11	Wed 11/16/11	NA	Wed 5/2/12	77%
377	Receive and Inventory	17 days	Wed 11/16/11	Wed 11/16/11	Thu 12/8/11	Thu 12/8/11	100%
378	Install and Program new PC	5 days	NA	Thu 4/26/12	NA	Wed 5/2/12	0%
379	New PC Installation Complete	6 days	NA	Wed 5/2/12	NA	Wed 5/2/12	0%



ID	Task Name	Duration	Actual Start	Start	Actual Finish	Finish	% Complete
380	Master Site Installation Westmoreland County	125 days	Wed 11/16/11	Wed 11/16/11	NA	Tue 5/8/12	61%
381	Receive and Inventory	17 days	Wed 11/16/11	Wed 11/16/11	Thu 12/8/11	Thu 12/8/11	100%
382	Install FNE Master Site	10 days	Mon 1/9/12	Mon 1/9/12	Fri 1/20/12	Fri 1/20/12	100%
383	UO Master Site	15 days	NA	Mon 4/16/12	NA	Fri 5/4/12	0%
384	Install MOGCAD Master Site	2 days	NA	Mon 5/7/12	NA	Tue 5/8/12	0%
385	Master Site Installation Complete	0 days	NA	Tue 5/8/12	NA	Tue 5/8/12	0%
386	Prime Site 1 Installation Westmoreland County	144 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 6/4/12	40%
387	Receive and Inventory	17 days	Wed 11/16/11	Wed 11/16/11	Thu 12/8/11	Thu 12/8/11	100%
388	Install FNE Prime Site 1	9 days	NA	Mon 3/5/12	NA	Thu 3/15/12	0%
389	UO Prime Site 1	15 days	NA	Fri 5/11/12	NA	Thu 5/31/12	0%
390	Install MOGCAD Prime Site 1	2 days	NA	Fri 6/1/12	NA	Mon 6/4/12	0%
391	Prime Site 1 Installation Complete	0 days	NA	Mon 6/4/12	NA	Mon 6/4/12	0%
392	Prime Site 2 Installation Westmoreland County	144 days	Wed 11/16/11	Wed 11/16/11	NA	Mon 6/4/12	43%
393	Receive and Inventory	17 days	Wed 11/16/11	Wed 11/16/11	Thu 12/8/11	Thu 12/8/11	100%
394	Install FNE Prime Site 2	6 days	NA	Fri 3/16/12	NA	Fri 3/23/12	0%
395	UO Prime Site 2	15 days	NA	Fri 5/11/12	NA	Thu 5/31/12	0%
396	Install MOGCAD Prime Site 2	2 days	NA	Fri 6/1/12	NA	Mon 6/4/12	0%
397	Prime Site 2 Installation Complete	0 days	NA	Mon 6/4/12	NA	Mon 6/4/12	0%
398	Remote Site Upgrade Westmoreland County	15 days	NA	Fri 5/11/12	NA	Thu 5/31/12	0%
399	Remote Site 1	0.5 days	NA	Fri 5/11/12	NA	Fri 5/11/12	0%
400	Remote Site 2	0.5 days	NA	Fri 5/11/12	NA	Fri 5/11/12	0%
401	Remote Site 3	0.5 days	NA	Mon 5/14/12	NA	Mon 5/14/12	0%
402	Remote Site 4	0.5 days	NA	Mon 5/14/12	NA	Mon 5/14/12	0%
403	Remote Site 5	0.5 days	NA	Tue 5/15/12	NA	Tue 5/15/12	0%
404	Remote Site 6	0.5 days	NA	Tue 5/15/12	NA	Tue 5/15/12	0%
405	Remote Site 7	0.5 days	NA	Wed 5/16/12	NA	Wed 5/16/12	0%
406	Remote Site 8	0.5 days	NA	Wed 5/16/12	NA	Wed 5/16/12	0%
407	Remote Site 9	0.5 days	NA	Thu 5/17/12	NA	Thu 5/17/12	0%
408	Remote Site 10	0.5 days	NA	Thu 5/17/12	NA	Thu 5/17/12	0%
409	Remote Site 11	0.5 days	NA	Fri 5/18/12	NA	Fri 5/18/12	0%
410	Remote Site 12	0.5 days	NA	Fri 5/18/12	NA	Fri 5/18/12	0%
411	Remote Site 13	0.5 days	NA	Mon 5/21/12	NA	Mon 5/21/12	0%
412	Remote Site 14	0.5 days	NA	Mon 5/21/12	NA	Mon 5/21/12	0%
413	Remote Site 15	0.5 days	NA	Tue 5/22/12	NA	Tue 5/22/12	0%
414	Remote Site 16	0.5 days	NA	Tue 5/22/12	NA	Tue 5/22/12	0%
415	Remote Site 17	0.5 days	NA	Wed 5/23/12	NA	Wed 5/23/12	0%
416	Remote Site 18	0.5 days	NA	Wed 5/23/12	NA	Wed 5/23/12	0%
417	Remote Site 19	0.5 days	NA	Thu 5/24/12	NA	Thu 5/24/12	0%
418	Remote Site 20	0.5 days	NA	Thu 5/24/12	NA	Thu 5/24/12	0%
419	Remote Site 21	1 day	NA	Fri 5/25/12	NA	Fri 5/25/12	0%
420	Remote Site 22	1 day	NA	Mon 5/28/12	NA	Mon 5/28/12	0%
421	Remote Site 23	1 day	NA	Tue 5/29/12	NA	Tue 5/29/12	0%
422	Remote Site 24	1 day	NA	Wed 5/30/12	NA	Wed 5/30/12	0%
423	Remote Site 25	1 day	NA	Thu 5/31/12	NA	Thu 5/31/12	0%
424	Remote Site Upgrade Complete	0 days	NA	Thu 5/31/12	NA	Thu 5/31/12	0%
425	Armstrong, Indiana Console Installation	95 days	NA	Mon 5/14/12	NA	Fri 9/21/12	0%
426	Console Installation Armstrong County	51 days	NA	Fri 7/13/12	NA	Fri 9/21/12	0%
427	Site Development (Electrical)	40 days	NA	Fri 7/13/12	NA	Thu 9/6/12	0%
428	Connectivity installed and tested	3 days	NA	Fri 9/7/12	NA	Tue 9/11/12	0%
429	Console Install	8 days	NA	Wed 9/12/12	NA	Fri 9/21/12	0%
430	Console Complete	0 days	NA	Fri 9/21/12	NA	Fri 9/21/12	0%
431	Dispatch Center Console Installation Indiana County	10 days	NA	Mon 5/14/12	NA	Fri 5/25/12	0%

ID	Task Name	Duration	Actual Start	Start	Actual Finish	Finish	% Complete
432	Site Development (Electrical)	1 day	NA	Mon 5/14/12	NA	Mon 5/14/12	0%
433	Connectivity installed and tested	1 day	NA	Tue 5/15/12	NA	Tue 5/15/12	0%
434	Console Install	8 days	NA	Wed 5/16/12	NA	Fri 5/25/12	0%
435	Homer City Console Installation Indiana County	13 days	NA	Mon 5/14/12	NA	Wed 5/30/12	0%
436	Site Development (Electrical)	1 day	NA	Mon 5/14/12	NA	Mon 5/14/12	0%
437	Connectivity installed and tested	1 day	NA	Tue 5/15/12	NA	Tue 5/15/12	0%
438	Console Install	2 days	NA	Mon 5/28/12	NA	Tue 5/29/12	0%
439	Console Install	1 day	NA	Wed 5/30/12	NA	Wed 5/30/12	0%
440	Console Complete	0 days	NA	Wed 5/30/12	NA	Wed 5/30/12	0%
441	System Optimization	126 days	NA	Tue 6/5/12	NA	Tue 11/27/12	0%
442	Link Verification	108 days	NA	Tue 6/5/12	NA	Mon 10/22/12	0%
443	Link Verification - Westmoreland	3 days	NA	Tue 6/5/12	NA	Thu 6/7/12	0%
444	Link Verification - Armstrong	20 days	NA	Tue 9/18/12	NA	Mon 10/15/12	0%
445	Link Verification - Indiana	20 days	NA	Tue 9/25/12	NA	Mon 10/22/12	0%
446	Optimize System FNE	113 days	NA	Fri 6/8/12	NA	Tue 11/27/12	0%
447	Optimize System FNE - Westmoreland	10 days	NA	Fri 6/8/12	NA	Thu 6/21/12	0%
448	Optimize System FNE - Armstrong	23 days	NA	Tue 10/16/12	NA	Thu 11/15/12	0%
449	Optimize System FNE - Indiana	26 days	NA	Tue 10/23/12	NA	Tue 11/27/12	0%
450	System Optimization Complete	0 days	NA	Tue 11/27/12	NA	Tue 11/27/12	0%
451	Audit and Acceptance Testing	244 days	NA	Tue 6/5/12	NA	Fri 5/10/13	0%
452	Westmoreland County Testing	5 days	NA	Tue 6/5/12	NA	Mon 6/11/12	0%
453	Perform R-56 Audit	3 days	NA	Tue 6/5/12	NA	Thu 6/7/12	0%
454	Perform System Testing	2 days	NA	Fri 6/8/12	NA	Mon 6/11/12	0%
455	SATP Complete	0 days	NA	Mon 6/11/12	NA	Mon 6/11/12	0%
456	Armstrong	122 days	NA	Wed 7/11/12	NA	Thu 12/27/12	0%
457	R-56 Control Sites	3 days	NA	Mon 9/24/12	NA	Wed 9/26/12	0%
458	R-56 RF Sites	15 days	NA	Wed 7/11/12	NA	Tue 7/31/12	0%
459	R-56 Console Locations	3 days	NA	Mon 9/24/12	NA	Wed 9/26/12	0%
460	R-56 Punchlist Resolution	15 days	NA	Thu 9/27/12	NA	Wed 10/17/12	0%
461	Perform System Testing	60 days	NA	Fri 11/16/12	NA	Thu 11/29/12	0%
462	Perform Coverage Testing	30 days	NA	Fri 11/30/12	NA	Thu 12/27/12	0%
463	SATP Complete	0 days	NA	Thu 12/27/12	NA	Thu 12/27/12	0%
464	Indiana County	193 days	NA	Wed 8/29/12	NA	Fri 5/10/13	0%
465	R-56 Control Sites	3 days	NA	Tue 9/25/12	NA	Thu 9/27/12	0%
466	R-56 RF Sites	15 days	NA	Mon 9/17/12	NA	Fri 10/5/12	0%
467	R-56 Console Locations	3 days	NA	Wed 8/29/12	NA	Fri 8/31/12	0%
468	R-56 Punchlist Resolution	16 days	NA	Mon 10/6/12	NA	Mon 10/29/12	0%
469	Perform System Testing	10 days	NA	Wed 11/28/12	NA	Tue 12/11/12	0%
470	Perform Coverage Testing	21 days	NA	Fri 4/12/13	NA	Fri 5/10/13	0%
471	SATP Complete	0 days	NA	Fri 5/10/13	NA	Fri 5/10/13	0%
472	Cutover	262 days	NA	Tue 6/12/12	NA	Wed 6/12/13	0%
473	Westmoreland	1 day	NA	Tue 6/12/12	NA	Tue 6/12/12	0%
474	Cutover FNE	1 day	NA	Tue 6/12/12	NA	Tue 6/12/12	0%
475	Cutover Complete	0 days	NA	Tue 6/12/12	NA	Tue 6/12/12	0%
476	Armstrong	52 days	NA	Thu 10/18/12	NA	Fri 12/28/12	0%
477	Cutover FNE	1 day	NA	Fri 12/28/12	NA	Fri 12/28/12	0%
478	Cutover Dispatch	1 day	NA	Fri 12/28/12	NA	Fri 12/28/12	0%
479	Cutover Subscribers	1 day	NA	Thu 10/25/12	NA	Thu 10/25/12	0%
480	Cutover Complete	0 days	NA	Fri 12/28/12	NA	Fri 12/28/12	0%
481	Indiana	13 days	NA	Mon 5/13/13	NA	Wed 6/12/13	0%
482	Cutover FNE	1 day	NA	Mon 5/13/13	NA	Mon 5/13/13	0%
483	Cutover Dispatch	1 day	NA	Mon 5/13/13	NA	Mon 5/13/13	0%

ID	Task Name	Duration	Actual Start	Start	Actual Finish	Finish	% Complete
484	Cutover Subscribers	1 day	NA	Tue 5/14/13	NA	Tue 5/14/13	0%
485	Cutover Complete	0 days	NA	Wed 6/12/13	NA	Wed 6/12/13	0%
486	Subscriber Installation	352 days	NA	Tue 2/7/12	NA	Wed 6/12/13	0%
487	Armstrong	37 days	NA	Tue 8/28/12	NA	Wed 10/17/12	0%
488	Receive and Inventory	2 days	NA	Tue 8/28/12	NA	Wed 8/29/12	0%
489	Mobile Install and Program	10 days	NA	Thu 8/30/12	NA	Wed 9/12/12	0%
490	Portable Program and Distribute	10 days	NA	Thu 10/4/12	NA	Wed 10/17/12	0%
491	Subscriber Acceptance	0 days	NA	Wed 10/17/12	NA	Wed 10/17/12	0%
492	Indiana	213 days	NA	Wed 7/4/12	NA	Fri 5/10/13	0%
493	Receive and Inventory	3 days	NA	Wed 7/4/12	NA	Fri 7/6/12	0%
494	Portable Program and Distribute	5 days	NA	Mon 7/9/12	NA	Fri 7/13/12	0%
495	Program Dash Mount Modules	8 days	NA	Mon 7/16/12	NA	Wed 7/25/12	0%
496	Program Control Stations	5 days	NA	Thu 7/26/12	NA	Wed 8/1/12	0%
497	Install Dash Mount Modules	15 days	NA	Thu 8/2/12	NA	Wed 8/22/12	0%
498	Install Mobile Command Unit Modules	1 day	NA	Thu 8/23/12	NA	Thu 8/23/12	0%
499	Install Control Stations	16 days	NA	Fri 8/24/12	NA	Fri 9/14/12	0%
500	Subscriber Acceptance	0 days	NA	Fri 5/10/13	NA	Fri 5/10/13	0%
501	Training	352 days	NA	Tue 2/7/12	NA	Wed 6/12/13	0%
502	Bridge the Knowledge Gap for ASTRO 25 System Administrators	2 days	NA	Tue 2/7/12	NA	Wed 2/8/12	0%
503	ASTRO 25 IV&D System Networking	10 days	NA	Thu 2/9/12	NA	Wed 2/22/12	0%
504	ASTRO 25 IV&D Trunked System Overview (part 1 of 3)	2 days	NA	Thu 2/23/12	NA	Fri 2/24/12	0%
505	ASTRO 25 IV&D Introduction to Radio System Administration	2 days	NA	Mon 2/27/12	NA	Tue 2/28/12	0%
506	ASTRO 25 IV&D Radio System Administration Workshop (part 2 of 3)	10 days	NA	Wed 5/9/12	NA	Tue 5/22/12	0%
507	ASTRO 25 IV&D Digital Manual Aid	1 day	NA	Wed 5/23/12	NA	Wed 5/23/12	0%
508	MOSCAD Operator	1 day	NA	Thu 5/24/12	NA	Thu 5/24/12	0%
509	MCC7500 Supervisor	1 day	NA	Fri 4/19/13	NA	Fri 4/19/13	0%
510	MCC7500 Console Operators	23 days	NA	Mon 4/22/13	NA	Wed 5/22/13	0%
511	ASTRO 25 Portable and Mobile Train-the-Trainers	15 days	NA	Thu 5/23/13	NA	Wed 6/12/13	0%
512	Training Complete	0 days	NA	Wed 6/12/13	NA	Wed 6/12/13	0%
513	Finalize	312 days	NA	Wed 6/13/12	NA	Thu 8/22/13	0%
514	Westmoreland	21 days	NA	Wed 6/13/12	NA	Wed 7/11/12	0%
515	Final Inspection With Customer	1 day	NA	Wed 6/13/12	NA	Wed 6/13/12	0%
516	Resolve Punch List	20 days	NA	Thu 6/14/12	NA	Wed 7/11/12	0%
517	Final Acceptance	0 days	NA	Wed 7/11/12	NA	Wed 7/11/12	0%
518	Armstrong	118 days	NA	Mon 12/31/12	NA	Wed 6/12/13	0%
519	Final Inspection with Customer	5 days	NA	Mon 12/31/12	NA	Fri 1/4/13	0%
520	Finalize Documentation	20 days	NA	Mon 1/7/13	NA	Fri 2/1/13	0%
521	Transition Service/PTC	3 days	NA	Mon 2/4/13	NA	Wed 2/6/13	0%
522	Punchlist - Final	20 days	NA	Thu 2/7/13	NA	Wed 3/6/13	0%
523	Final Acceptance	0 days	NA	Wed 6/12/13	NA	Wed 6/12/13	0%
524	Indiana	51 days	NA	Thu 6/13/13	NA	Thu 8/22/13	0%
525	Final Inspection with Customer	5 days	NA	Thu 6/13/13	NA	Wed 6/19/13	0%
526	Finalize Documentation	20 days	NA	Thu 6/20/13	NA	Wed 7/3/13	0%
527	Transition Service/PTC	3 days	NA	Thu 7/18/13	NA	Mon 7/22/13	0%
528	Punchlist - Final	23 days	NA	Tue 7/23/13	NA	Thu 8/22/13	0%
529	Final Acceptance	0 days	NA	Thu 8/22/13	NA	Thu 8/22/13	0%